Flameproof (Type 'd')
CPFG-4000

II 2G D

The CPFG-4000 is a PLC based Combined Pressurisation Fire & Gas control panel. Used in conjunction with other JCE supplied products such as gas detectors, smoke detectors, pressure switches, etc. then a complete pressurisation control system can be constructed monitoring the conditions in pressurised modules used in areas potentially hazardous by the presence of flammable liquids, gases, or vapours.

The CPFG-4000 is capable of monitoring signals from a single fire channel and three gas channels simultaneously.

The unit is suitable for use with either Pellistor type or Infrared gas detectors type gas detectors, as standard.

Its simple operation by only two external switches, and has an easy to read 3 line backlit HMI display module make it very user friendly. The various configuration settings and process variable set points are set through the HMI in an easy to follow step by step process in association with the user manual.

The units flexibility in mains voltage means that any voltage from 400 to 500Vac, can be applied with out the need for selection as this function is automatic. It provides the required volt free signals, these are changeover type as standard to enhance flexibility.

The I.S. protection of relevant field devices is by Galvanic Isolation which eliminates the requirements for I.S. High Integrity earth connection.

Materials and Finish

Body & Cover - Copper free aluminium alloy LM25 (BS1490) with less than 0.2% copper content.

Cover Bolts - Stainless steel (18/8).

Finish - Chromate primed and polyester powder coated. Textured black as standard. Other finishes available on request.

Earthing

All enclosures are supplied with a 6mm stainless steel (18/8) internal and external earth stud as standard. Larger internal earths can be fitted on request.

Entries and Thread Standards

Standard thread forms are ISO Metric to BS 3643, NPT or GAS can be supplied on request.

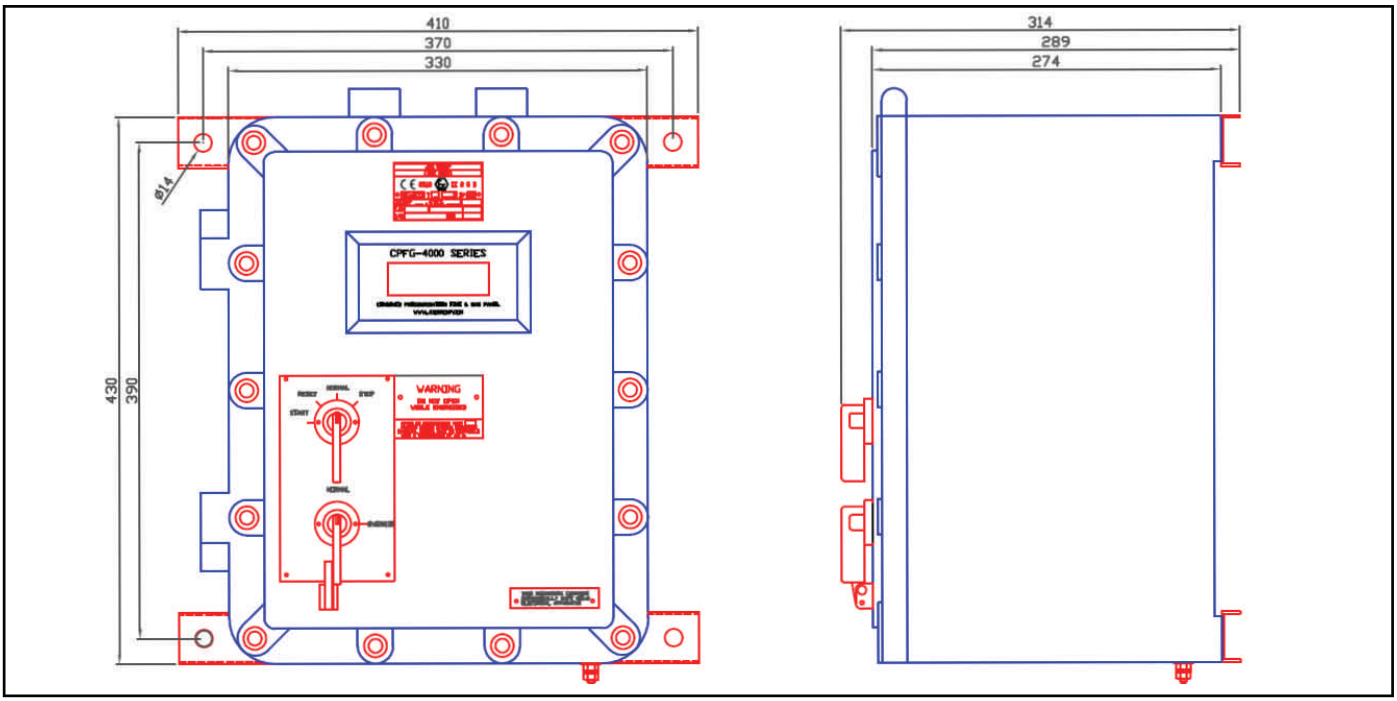
Protection Grade

Enclosure lid incorporate a gasket providing Ingress Protection to IP66. Application of a non hardening grease to flamepaths and entries is recommended.

Certification

- ISSeP03ATEX029
- EExd - IIB T6

Dimensions



Specifications

Ex Protection	:	EExd IIB T6
Supply voltage	:	400V 3ph 50/60Hz 440V 3ph 50/60Hz 460V 3ph 50/60Hz 480V 3ph 50/60Hz
Pressurisation fan supply	:	Minimum 1.4A Maximum 2.5A
Main contactor rating	:	AC-1 60A AC-3 37A 3ph Transformer@440V 28kVA
Fire channels	:	1 x fire channels suitable for up to 12 EExi ionisation smoke detectors & 1 x manual call point.
Flammable gas channels	:	3 flammable gas channels, voting
EMC	:	Emissions below EN55022 level B. Immunity to fast transients IEC 801-4 2kV

Typical features	:	- Light weight aluminium alloy EExd flameproof enclosure. - Three line backlit HMI controller/display. - DOL motor starter for pressurisation fan. - Lockable purge override switch. - Compatible with 4-20mA gas detector transmitters or infra red detector types - Interface for intrinsically safe ionisation smoke detectors, heat detectors, flame detectors and manual call points. - Continuous pressurisation and airflow monitoring via 2 channel intrinsically safe galvanic isolation interface. - Various C/O type alarm outputs for interfacing with external system.
Ordering information	:	CPFG-4000 Customised variations available on request.

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- Specify cable entry and thread form on ordering.
- Details of certification and conformity can be provided on request.
- All products sold subject to our terms and conditions of business.
- Health and Safety at Work Act 1974. In the UK all equipment must be installed and disposed of (as required) within the legislative requirements of the Health & Safety at Work Act 1974.

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